



JSPM's
RAJARSHI SHAHU COLLEGE OF ENGINEERING
TATHAWADE, PUNE-33
(An Autonomous Institute Affiliated to Savitribai Phule Pune
University,Pune)



Structure and Syllabus
for
B. Tech. Mechanical Engineering
with
Honors in “e-Mobility”

w. e. f. Academic Year 2021-2022
(2019 Pattern)

Submitted to
Savitribai Phule Pune University, Pune

Forwarded with approval from
Board of Studies Mechanical Engineering,
Academic Council, JSPM's Rajarshi Shahu College of Engineering, Pune.



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Board of Studies (Mechanical Engineering)
(Honor Course)
Honors* in e-Mobility
Structure


Course Code	Course	Teaching Scheme			Semester Examination Scheme of Marks						Credits
		TH	TU	LAB	Theory			TW	LAB	TOTAL	TOTAL
					ISE (15)	MSE (25)	ESE (60)				
Semester –V											
MH3102	Electric Vehicle Technology	4	1	-	15	25	60	25	-	125	5
Semester –VI											
MH3105	Battery Management System	3	-	2	15	25	60	-	25	125	4
MH3106	Hybrid Electric Vehicle	3	-	2	15	25	60	-	25	125	4
Semester –VII OR VIII											
MH4103	EV Drives and Control	4	-	-	15	25	60	-	-	100	4
MH4104	Design of Electric and Hybrid Vehicle	4	-	-	15	25	60	-	-	100	4
Total of Semester		18	-	4	75	125	300	-	50	550	20


Pre-requisite:

1. Basic Electrical & Electronics Engineering
2. Material Science OR Network Analysis
3. Electric Machines


Note: The above courses shall be learned from the appointed course coordinator at the institute. The learning can be supplemented using the MOOC platforms like NPTEL/ COURSERA/ SWAYAM.

Learning mode shall be declared by the department at the beginning of the semester.


 Dr. A. M. Badadhe
 BOS Chairman (Mechanical)


 Dr. Ram Joshi
 Dean Academics




 Dr. R. K. Jain
 Director RSCOE, Pune

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